

California Spatial Information Library (CaSIL)

Quinn Hart

UCDavis

February, 2003

What is CaSIL?

- CaSIL is a Library of Spatial data products of importance to the State of California, providing a simple interface to the largest audience.
- <http://gis.ca.gov>
- <http://casil.ucdavis.edu/casil/>

CaSIL Core Features

- **Library Function**

- Index through FGDC compliant Catalog (California Environmental Information Catalog at CERES)
- Datasets

- **One big online GIS filesystem**

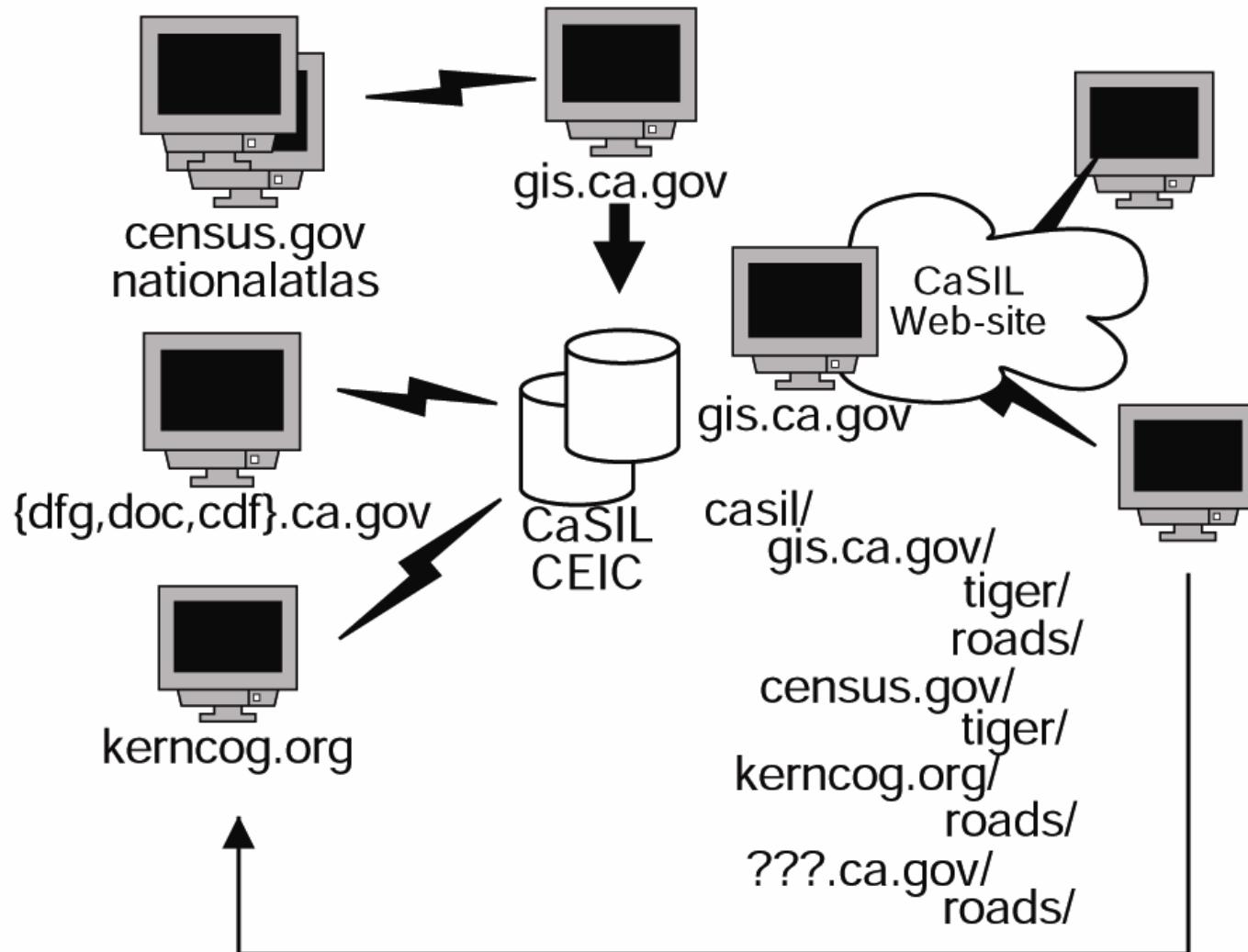
- **No forced choice on frontend**

- No Clip & Ship
- No GIS web viewer
- Data backend for other services

Library Functions

- Based on California Environmental Information Catalog <http://gis.ca.gov/catalog/>
 - On-line Metadata Management
 - Or others (ArcCatalog eg.)
 - XML export / import
- FGDC Spatial Data Metadata
- NSDI Clearinghouse node <http://www.fgdc.gov/>

CaSIL Architecture



User Types

- **Casual User**

- Browse Filesystem
- Download Individual Packages

- **LAN Administrators**

- Maintain Large Sections of CaSIL
- Need to share locally (filesystem mounts)
- Tape/DataSuitcase Startup rsync/ftp synchronization
- Casual Navigation Help

- **Mirrors**

- Maintain large sections of CaSIL
- Need to share widely (ftp, http)
- Tape/DataSuitcase Startup rsync/ftp synchronization
- Casual Navigation Help

February 2003 Distribution Features

- **More Types of Users-**
 - Casual Users
 - LAN Administrators
 - Mirrors
- **Exposed File Structure**
- **Better Casual Navigation**
- **More Access Methods**
- **XML Formatted FGDC Metadata**

Data Available

- **GIS.CA.GOV**
 - Base Layers
 - Indices, Boundaries
- **Statewide Landsat**
- **DRGs**
 - Albers / UTM
 - Geotiff, Mr.SID
- **DOQQs**
 - From doc.ca.gov, dfg.ca.gov, gis.ca.gov, lots of others
- **National Hydrology Dataset (NHD)**
 - From swrcb.ca.gov
- **Statewide coverage available offline for SPOT**
- **Local Data**
 - – kerncog.org

Quick Facts

Datasets	15,000
Size	~ 1 Tb
Dataset Types	60
Contributors	12
Mirrors	3
Metadata	XML
Filesystem	open
Local Files	yes

Usage

- One year in service
- 3.6 terabytes delivered
- 2 Tb offline
- 2003 average of 38 Gb per day
- 2 million total successful file requests
- 1 million GIS data file downloads

Usage

Jan 2002: +++++ (+) 2,500 requests
Feb 2002: +++++++
Mar 2002: +++++++
Apr 2002: ++++++++
May 2002: +++++++
Jun 2002: +++++
Jul 2002: +++++++
Aug 2002: +++++++
Sep 2002: +++++++
Oct 2002: +++++++
Nov 2002: +++++++
Dec 2002: +++++++
Jan 2003: +++++++

Possible Future Enhancements

- More/Better Mirrors FTP Statistics
- NAD 83
- Stewards for State Base Layers
- Better Attribute Support
 - GML, ISO 11179
- More OpenGIS Functionality
 - WMS, Feature Server
- Additions to CEIC
 - Attribution, more Distribution Options, metadata ingest
- Version Control

More Information

<http://gis.ca.gov/>